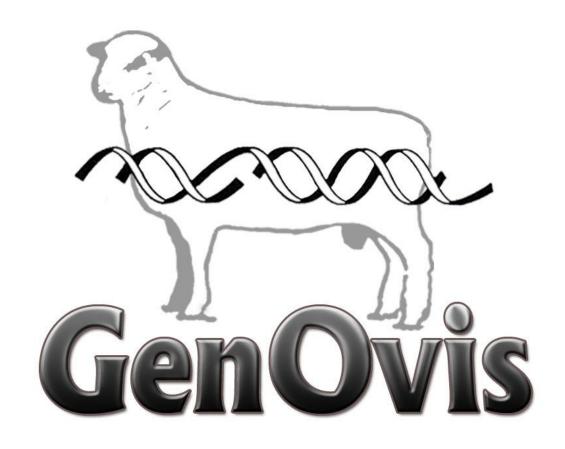
Getting Started with the New Online Program



User's Manual

Canadian Sheep Genetic Evaluation System - SWA 2.0 -

March 17th 2014

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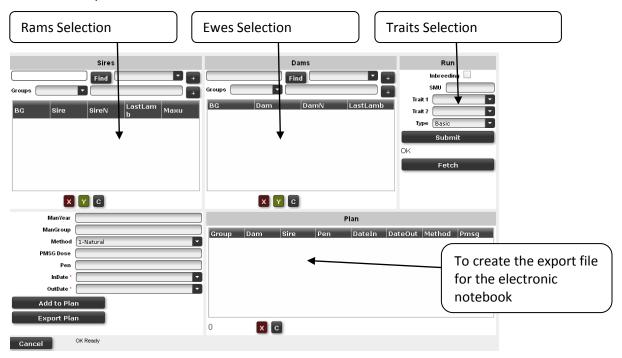
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Thanks to Delma Kennedy and its team for their help in the realisation of this User's Manual.

2.5 Mating Module

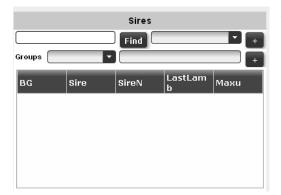
allows calculating genetic predictions and inbreeding of offspring from cross of selected ewes and rams. It is also possible to select, in the module, animals that you don't own, but plan to purchase. Also, by using this module, you will know quickly the inbreeding values expected of the offspring from cross of the ram that you look to purchase and your breeding ewes. In that way, you will know easily if the inbreeding values of its progeny will be low or high. You can also take a look at the expected genetic evaluation of the progeny of this ram in your flock for many traits. You can do the same for the ewes and the ewe-lambs you want to purchase.

This module is easy to use:



Ram Selection

1. Select the ram(s) you want to breed with your ewes.



To select the ram(s) you owned, use the scroll menu located at the right of the word **Groups** in the **Sires** side Groups . By selecting a management group or the current inventory, you will see it appear on the box located at the right of the scroll menu. It is possible to select more than a management group. Every time you click on a group, this

group will appear on the box (see example below).



2. When your selection is completed, click on appear in the grid below.



- 3. The following buttons will allow you to make a selection of the animals present on the grid:
 - the animals selected (underlined in blue)* will be removed of the grid by clicking on the X.
 - the animals selected (underlined in blue)* will be kept in the grid and the other ones will be removed by clicking on the Y.
 - by clicking on the C button, you will clear all the grid. This will allow you to start another request.

4. You can also search a ram using the Find button. This search function will allow you to add rams you may not own but are interested in from mating perspective. They may be animals that you are considering for purchase. Enter all or a part of the tattoo number or the national Id in the box located at the left of the Find button and press Find. This may take few minutes. The first 99 animals found that satisfy the search will be shown in the select pull-down located at the right of the



^{*}To underlined in blue an animal, click one time on the animal.

Thus be as specific as you can when entering the animal Id. The word **WAIT** will appear at the right of the FIND button during the search. When the search is completed, **WAIT** disappears and the pull-down button is available. Select the animal you want to add to the grid and press the button to the right.

5. You can sort the animals present in the grid by clicking on the column headers of the grid. This will allow you to sort animals by:

a. **BG**: Breed Groupb. **Sire:** Sire Tattoo

c. SireN: Sire National ID

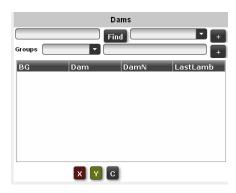
d. Last Lamb: Birth date of his last lamb

e. **MaxU:** maximum number of ewes that can be bred by this ram (for the optimal option –indicate it on the SMU box)

6. When you ram selection is completed, you can now process your ewe selection.

Ewe Selection

1. When your ram selection is completed, do the same thing for the ewes in the right grid named **Dams**.



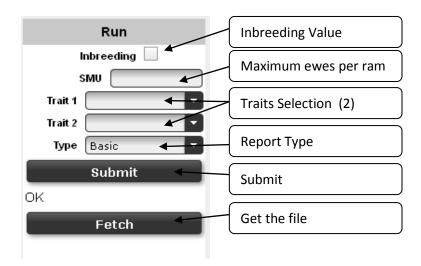
2. The column headers of the grid are:

a. **BG**: Breed Groupb. **Dam:** Dam Tattoo

c. DamN: Dam National IDd. Last Lamb: Last lambing date

3. When all the rams and the ewes are selected, you **must choose two traits for which you want to know the expected genetic evaluation of the progeny** of all parent combinations.

Traits Selection

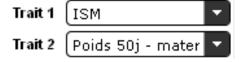


1. If you want to know the inbreeding value of the progeny of all parent combinaisons, check the Inbreeding box. **Inbreeding**

When you check the Inbreeding box, it takes more time (few minutes) to get the result file.

** Inbreeding value is optional ***

2. You must select two traits in the scroll menu.



- 3. Select the maximum number of ewes per ram (SMU). It will apply for all selected rams when you will select the optimal type report (not available yet). You can also set the maximum number of ewes per ram manually in the column MaxU of the sires side.
- 4. Select the type of report you want (basic or optimal). Please note that the optimal data aren't yet available.

5. Click on **Submit**. WAIT...

The label **WAIT...** will appear at the under of the **Submit** button. You must wait in the mate tab for the computations to finish. If not, the computation will be stopped.

6. When the file will be ready, the WAIT... label will change to the name of the server file (PA....) that contains the result. To get this file, click on **Fetch**.



6. You will obtain a CSV file that can be easily converted in an Excel format.

2.5.1 Mating Results Export File

This is the file obtained from the mating module. This is a CSV file that can be easily converted in an Excel format.

1. Click Fetch and a pop will open. Click ok.



Export is ready

- 2. A save box will appear, shown beside. Check "Open with" then OK.
- 3. A download box will open. Double click on the name of the file to open it.



4. Convert the CSV file in an Excel format (refer to Appendix 9 for the details).

5. When opened in Excel, this file looks like:

4	Α	В	С	D	Е	F	G
1			CEPO8163PC	(DP)			
2			CEPO3391RC	(DP)			
3			ISC	%	ISM	%	1%
4	CEPO80219WC(DP)	CEPO80240ZC(DP)	4.05	96	0.09	63.5	7.2
5	CEPO80212WC(DP)	CEPO80247ZC(DP)	3.57	95.5	-1.03	50	3.7
6	CEPO80212WC(DP)	CEPO80252ZC(DP)	3.85	96	1.49	67	10.1
7	CEPO80219WC(DP)	CEPO80256ZC(DP)	5.1	96.5	0.05	63.5	10.1
8	CEPO80219WC(DP)	CEPO80260ZC(DP)	4.79	96.5	0.29	64.5	6.9

- 1. In the **column A** you will find the sire of each selected ewe and its breed.
- 2. In the column B you will find the selected ewes of the Dams grid and its breed.
- 3. In the **column C** you will find the expected genetic evaluation of the progeny from the cross between each selected ewe of the column B and the ram of the column C for the trait 1 you have selected. Look on the case C3 to see which trait is evaluated.
- 4. In the **column C** you will also find the sire of the selected ram (line 1) and the selected ram itself (line 2).
- 5. In the **column D** you will also find the percentile related to the expected genetic evaluation of the progeny from the cross between each selected ewe of the column B and the ram of the column C.
- 6. In the **column E and F** you will have the same information than in the column C and D but for the second trait you have selected.
- 7. In the **column G** there is the inbreeding value (in percentage) of the progeny from each cross between the ewes in the column B and the ram in the column C. (1%)
- 8. If you have selected more than a ram, the columns H to L will be exactly the same as the columns C to G, but for the second ram. This will be the same for a third ram.

Tips: To optimize the mating planner use it is recommanded to create small groups of about 60 to 70 ewes. This will allow getting quick results and avoid the system to get down. Using taller groups may crash this application and you will be obliged to select again the ewes and the rams to create a new report.

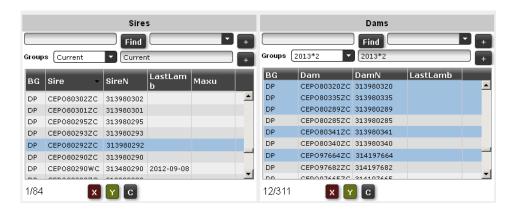
2.5.2 Mating File for the Electronique Notebook

When your mating groups are completed you can create the mating file to upload data into your electronic notebook.

- 1. Make appear all the rams you will need in the Sires grid.
- 2. Make appear all the dams that will be bred in the Dams grid.

These steps are very useful to facilitate the following ones.

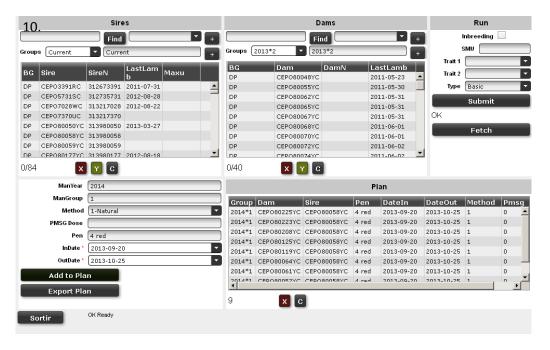
- 3. Select a first ram by clicking on its row (will be underlined in blue)
- 4. Select all the ewes that will be bred by this ram in the Dams grid by clicking them.



- 5. Enter the management year and group in the appropriate box.
- 6. Indicate the type of breeding and the PMSG dose (if used):
 - a. Natural
 - b. Photoperiod
 - c. CIDR Sponge
 - d. MGA
 - e. Ram effect
 - f. AI (Artificial Insemination)
- 7. Enter the pen given for the ram (you can also enter a color, a pen and a color or the ram name)
- 8. Enter the indate and outdate of the ram.

9. When all the information is completed, click on

Add to Plan



Important Notes:

*When you have clicked on Add to Plan, it is not possible to add ewe to the first ram. You will get an error message saying this ram is already used.

*Animals national ID must be entered in the GenOvis program to be able to use this file in the electronic notebook.

11. Repeat steps 3 to 9 for the second ram... and again for the third one...



- 12. When you have finished, click on WAIT...
- 13. The label **WAIT...** will appear at the under of the **Submit** button. You must wait in the mate tab for the computations to finish. If not, the computation will be stopped.
- 14. When the file will be ready, the WAIT... label will change to the name of the server file (PA....) that contains the result. To get this file, click on **Fetch**.



15. You will obtain a CSV file to upload in your electronic notebook.

3 Useful Information

3.1 Animal Record Validation

When an animal record save is attempted the following validations are performed:

- a. You must be properly logged into the system.
- b. The dam specified must be found in the Pedigree and her sex must be "F".
- c. The sire specified must be found in the Pedigree and his sex must be "M".
- d. The lamb birth date must be a valid date and must be consistent with the birth dates of the parents (see table below). This validation is not performed if a phantom sire or dam (i.e. "XXram" or "XXewe", where XX is the breed code) is used.
- e. The breed code of the lamb is computed from the parents.
- f. The 50, 100 and ultrasound dates are validated as specified in the table.
- g. The weights and other measurements are validated.
- h. The 100 day date must be at least 28 days greater than the 50 day date.
- i. The previous lambing date for the dam must be at least 147 days prior to the current lambing.
- j. A Foster ID needs to have lambs within the past 30 days.

Ranges for Validation of Data Input

Variable	Minimum	Maximum	
LambBirthDate-DamBirthDate	8 months	13 years	
LambBirthDate-SireBirthDate	7 months	31 years	
LambBirthDate-Day50Date	28 days	69 days	
LambBirthDate-Day100Date	70 days	120 days	
LambBirthDate-UltraDate	70 days	150 days	
BirthWeight	1 kg	13 kg	
BornAs	0	7	
RaisedAs	0	6	
50DayWeight	4 kg	55 kg	
100DayWeight	10 kg	91 kg	
UltraDayWeight	11kg	99 kg	
UltraDayLoinDepth	7 mm	50 mm	
UltraDayFatThickness	0 mm	15 mm	
Lambing Interval	147 days		
50 day and 100 day weighing interval	28 days		

^{*}Note that these values can be changed by the administration.